

Who is MeGIS and the Maine GeoLibrary?

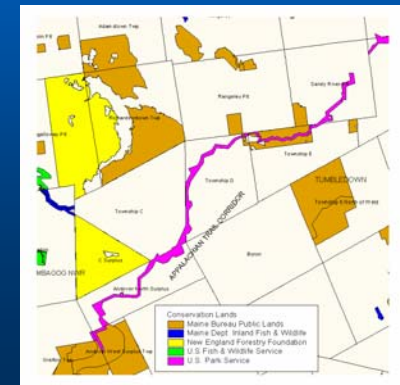
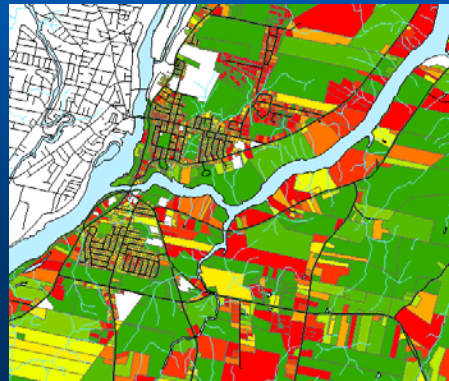
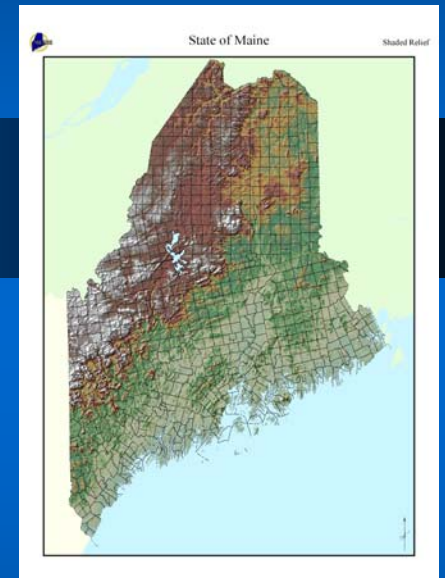
Geospatial Data, Data Services and Related Information from the Maine Office of GIS



Dan Walters, GIS Administrator
State of Maine
Office of Information Technology
Maine Office of GIS
Phone: 207-624-9435
Email: dan.walters@maine.gov

FOR MORE INFO...

Website: <http://megis.maine.gov/>



Overview of MeGIS Operations....

Office of GIS



Core GIS Services

- Technical Support
- Standards – data development/metadata
- Geospatial data repository
- Access to GIS – data, software, applications
- Intergovernmental coordination
- Clearinghouse for GIS



GIS Projects

- Data development
- Application development
- Maps
- Analysis

Who's in Charge?

GIS Executive Council

*Formed to oversee the operation of the
Office of Geographic Information Services
and the development of a statewide
geographic information system*

GIS EC

- GIS Executive Council
 - Main focus is State government GIS activity
 - 20 state agencies
 - GIS Technical Committee
 - Subcommittees as needed (e.g., Internet mapping, hydrography, remote sensing)
 - Annual work plan guides work
 - Agencies provide funding

State GIS Executive Council

Administrative & Financial Services

Agriculture

Atlantic Salmon Commission

Corrections

Economic & Community Development

Education

Environmental Protection

Historic Preservation Commission

Health & Human Services

Inland Fisheries & Wildlife

Maine Emergency Management

Maine State Library

Maine State Museum

Marine Resources

Maine Army National Guard

Professional & Financial Regulations

Public Safety

Public Utilities Commission - ADMIN

Public Utilities Commission - ESCB

State Planning Office

Transportation

Univ. of Maine System/UNET

Who Else is in Charge?

The Maine Library of Geographic Information “GeoLibrary”

Maine Library of Geographic Information or "library" means the statewide network officially sanctioned by the Legislature by which data custodians or their designees organize, catalog, and provide access to public geographic information to all levels of government and to the public.

GeoLibrary

- **Maine GeoLibrary Board**
 - **Broader focus; promote use outside state government**
 - Local & regional government, public and private sector
 - Finance Subcommittee
 - Policy Subcommittee
 - Technical Subcommittee
 - **Work plan driven by bond funds**
 - **Bond is currently the sole funding source for GeoLibrary**

Maine Library of Geographic Information Board

Jim Page, James W. Sewall Co.

- representing GIS vendors

Marilyn Lutz, Spatial Information Science & Engineering

- University of Maine

Jon Guiles, City of Portland

- municipal representative

Paul Mateosian, City of Bath

- municipal representative

Ken Murchison, Northern Maine Development Corporation

- representing statewide association of regional councils

Robert F. Faunce, Consultant to Lincoln County

- representing statewide association of counties

Barbara Charry, Maine Audubon Society

- representing environmental interests

Dennis Boston, Central Maine Power

- representing utility interests

William Mitchell, Mitchell Geographics

- representing GIS vendors

Sean Myers

- representing the public

Robert Doiron, Maine Revenue Service

- DAFS Commissioner designee

Richard Thompson

- state government Chief Information Officer

Elizabeth Hertz, Maine State Planning Office

- representing state GIS functions

Vacant

- representing real estate and development interests

Vacant

- board position to be filled by legislature

Process for Effective GIS Data Management and Distribution

Contributors/Participants

Federal agencies
Education
Counties
Private Sector

State agencies
Towns
NGOs
GeoLibrary

Standards

Validation

Enterprise Database
Performance and Access

Multiple Access Points

CDs

Internet Downloads
Mapping

WAN

Citrix

Maps

Applications

Contributors/Participants
& General Public

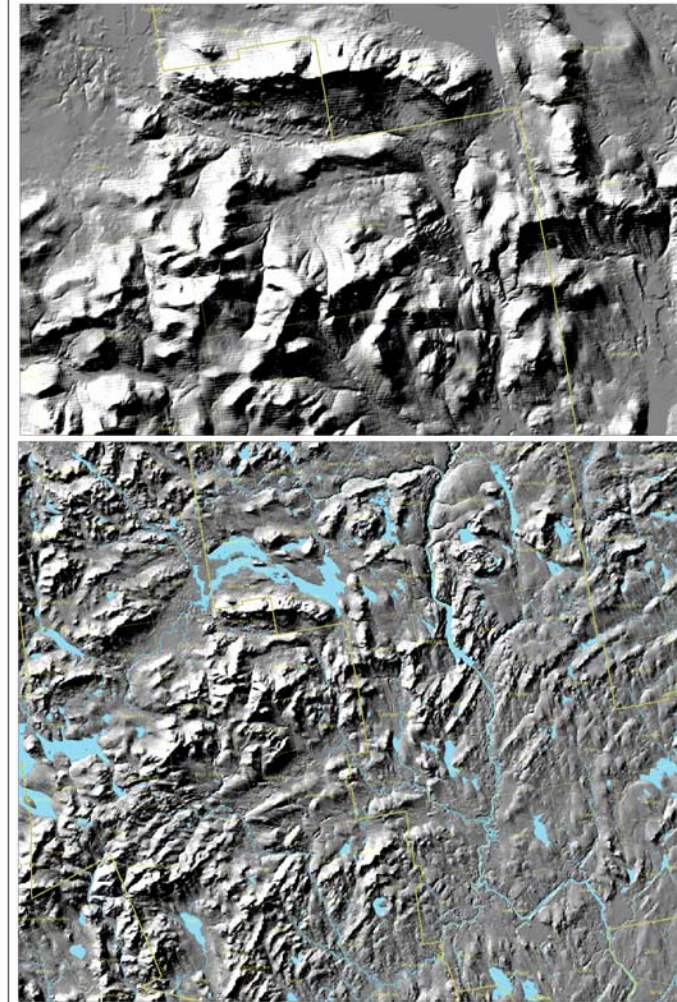
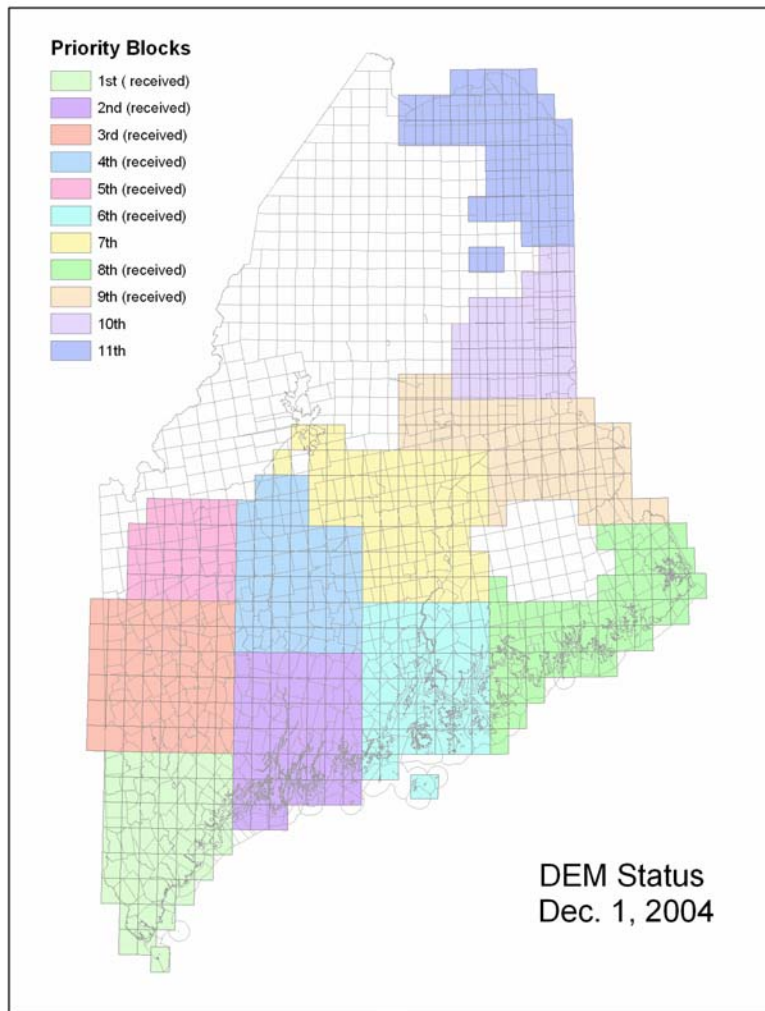
Core GIS Services

Coordination
Development
Maintenance
Outreach
Technical Support

GIS Core Services Applied to:

- GIS Standards
- Data & Metadata Certification
- Hardware/Software Infrastructure
- GIS Data
 - Base map
 - Thematic
- Data Storage
- Access to GIS Data
- Training

10 meter digital elevation models



Spot Satellite Image Draped Over Terrain Model

Orthoimagery

Maine Counties GIS Forum



Statewide Orthoimagery Project

Tier A

- Photoscale 1 inch = 1,000 ft.
- Production scale 1 inch = 200 ft.
- Pixel resolution = 1 ft.
- Flight height = 6,000 ft.

Tier B

- Photoscale 1 inch = 2,000 ft.
- Production scale 1 inch = 400 ft.
- Pixel resolution = 2 ft.
- Flight height = 12,000 ft.

Tier C

- Photoscale 1 inch = 3,300 feet
- Production scale 1 inch = 1000 ft.
- Pixel resolution = 3.3 ft.
- Flight height = 20,000 ft.

Leaf off

No snow

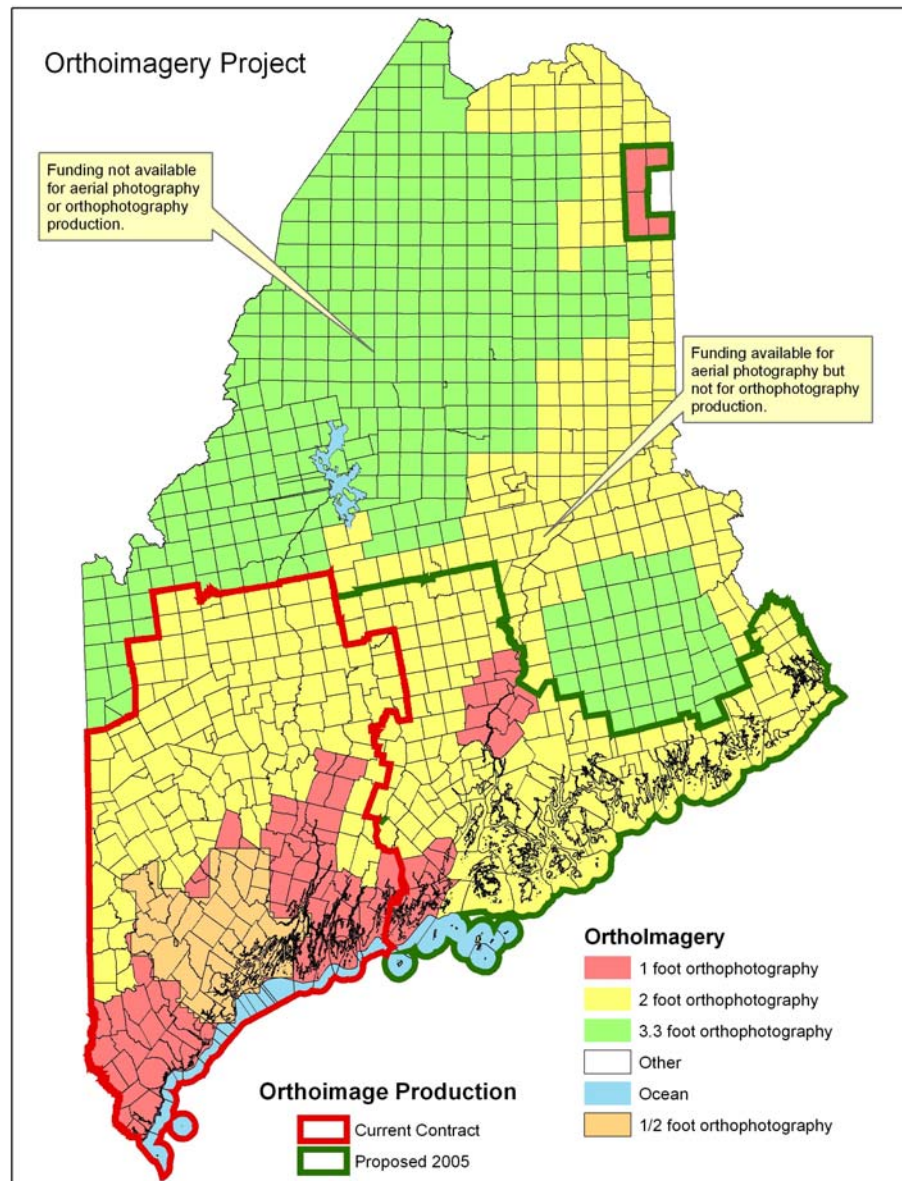
Mainly spring

Ortho-rectified

Natural color

Sun angle > 30 degrees

Horizontal accuracy – NMAS



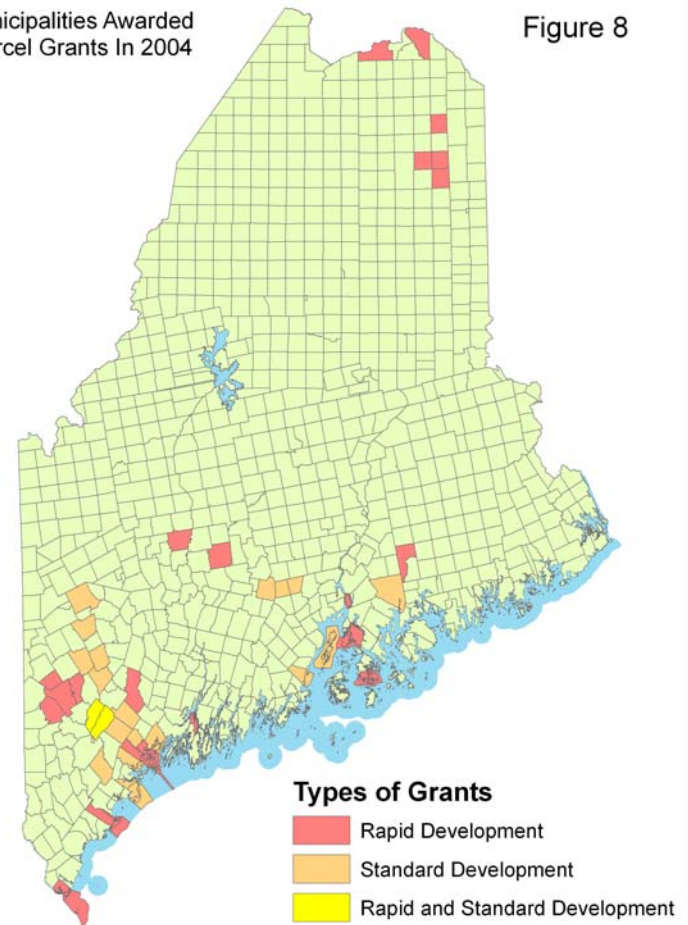
Municipal Grant Program

Digitizing Property Maps

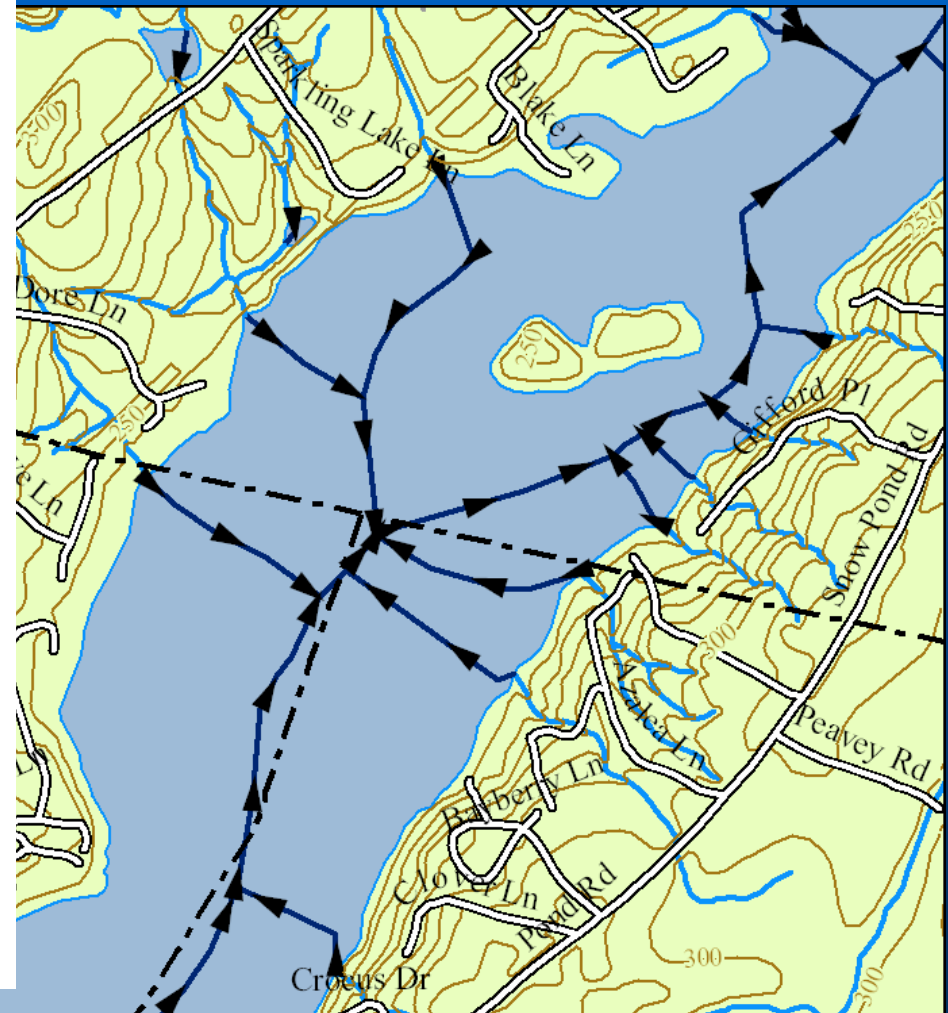
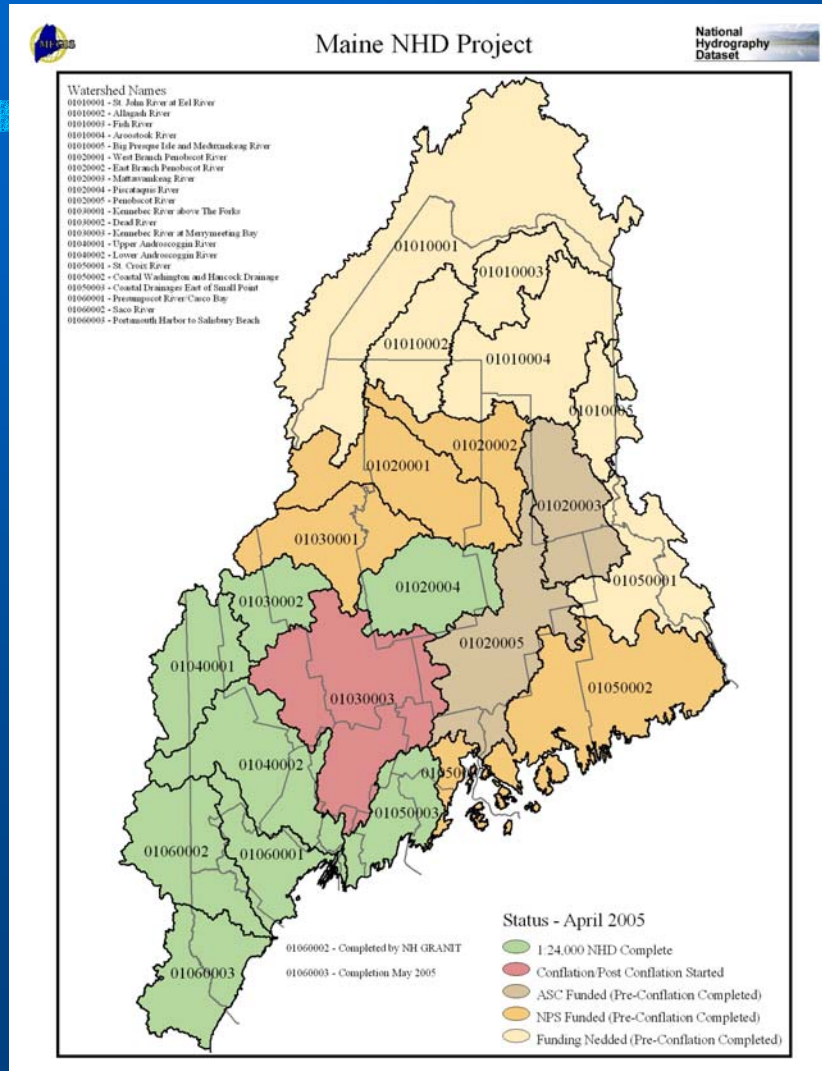
- Standards for digital parcel files
- \$350,000 available for two grant periods: \$175,000 in both 2004 & 2005
- 78 applications received in first round
 - 27 for rapid development grants
 - 51 for standard development grants
 - 48 grants awarded
- Next round will be announced in June

Municipalities Awarded
Parcel Grants In 2004

Figure 8



National Hydrography Database



E911 Addressing and Maintenance

E911 Data Status - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Back Forward Stop Home Search Favorites RSS Feeds Mail Downloads

Address <http://megisims.state.me.us/website/e911stat/viewer.htm> Go Links »

Search Web [RollingStone](#) [Radio](#) [Music](#) [Games](#) [Sports](#) [News](#) [Movies](#) [HotStuff](#) [TV/Celebs](#)

E911 Data Status [MEGIS Home Page](#) | [E911 Project Page](#) | [E911 Maintenance Page](#) | [Help](#)

overview zoom in zoom out Full extent last extent pan identify search find clear sel print

LEGEND
Countries
Town Data Status
Not participating
Have not Begun
Preliminary Data Creation
Data Review
Final Review
Preparing for Data Release
Final data available

[View e911rds metadata](#)

Map created with ArcIMS - Copyright (C) 1992-2002 ESRI Inc.

Town Data Status

Rec	TOWN	GEOCODE	LAST UPDATE	STATUS
1	Wilton	07210	Wed, 14 Apr 2004 00:00:00	Final data available

Click on town name to download data if final data is available.

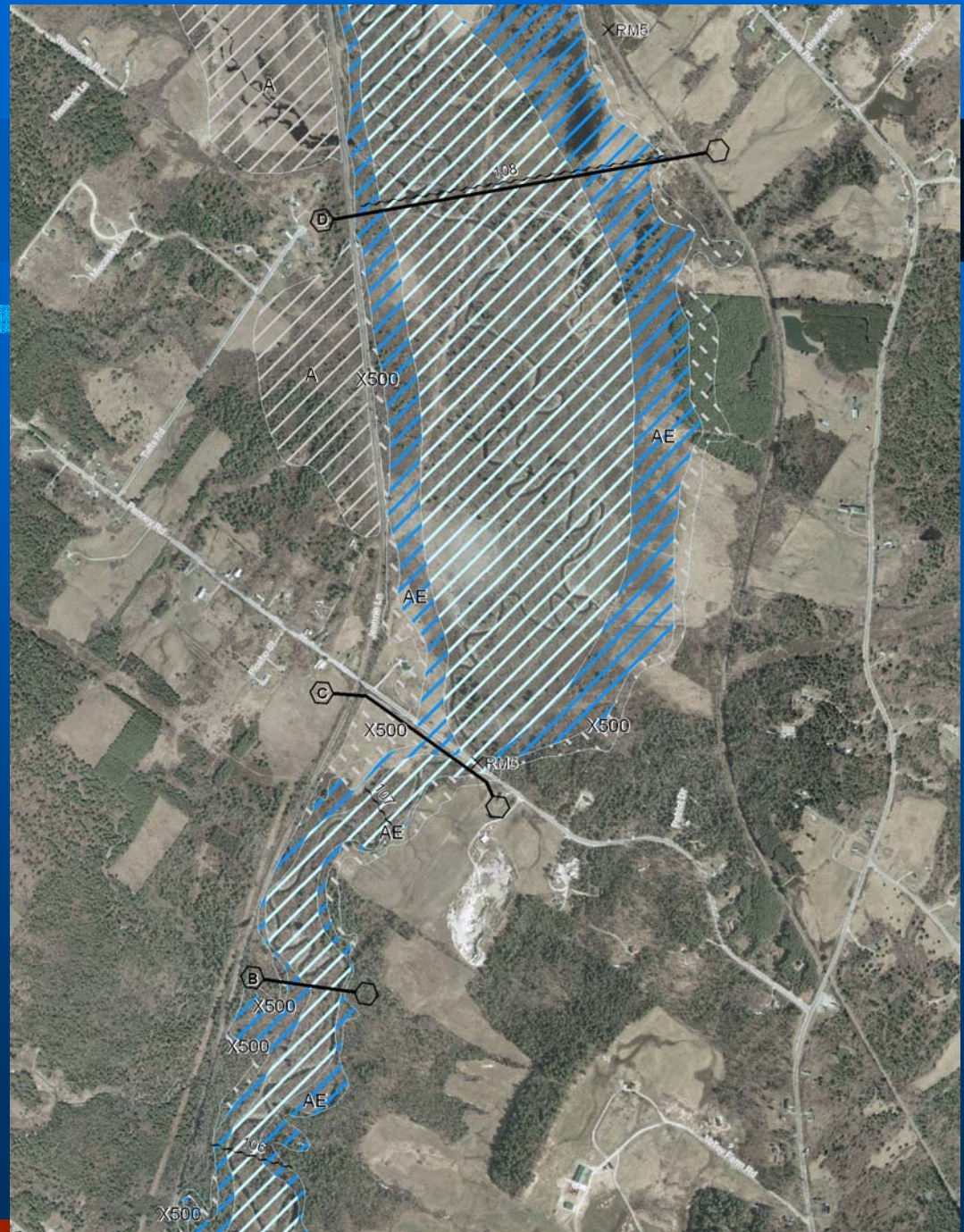
Identify
Map: 288531.21, 5212975.2 -- Image: 214, 60 -- ScaleFactor: 722.0104820318893

Start [Internet](#) [Inbox - Microso...](#) [Microsoft Power...](#) [Untitled - ArcMa...](#) [Maine Geograph...](#) [E911 Data St...](#) 1:03 PM

Digital Flood Insurance Rate Maps *Map Modernization*

FEMA
State Planning Office
Maine Office of GIS
US Geological Survey

- Recompile FIRM maps to new orthoimagery base
- New hydrologic studies to re-delineate flood zones



Statewide Land Cover Project

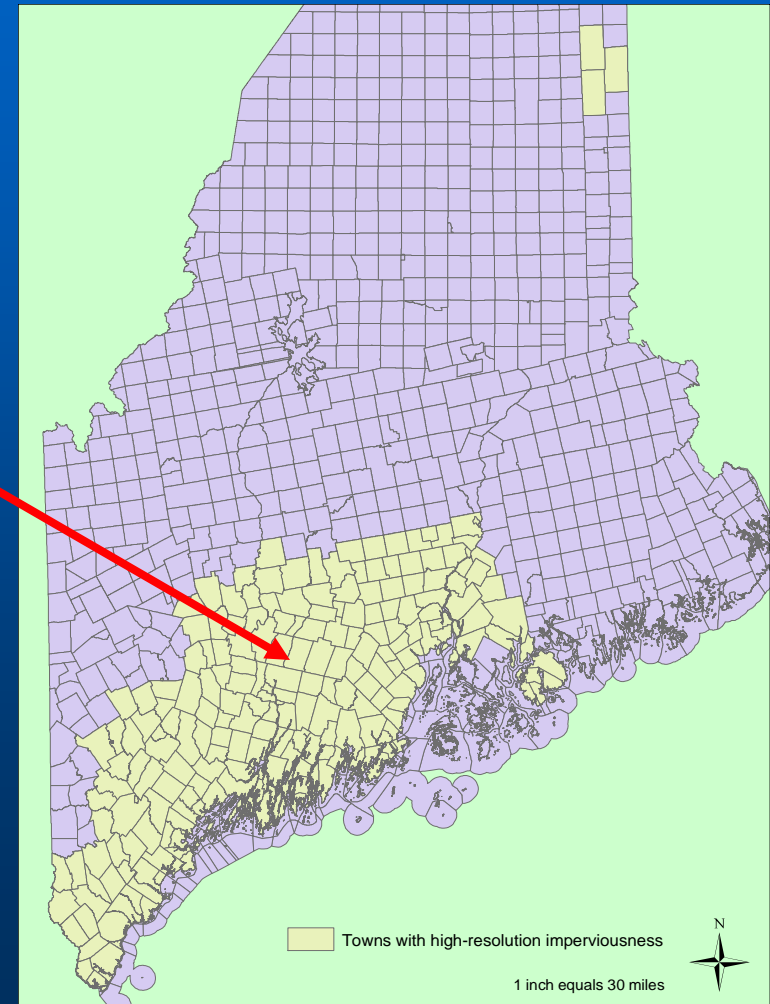
Land cover map

- 20 land cover classes
- 5 meter pixel resolution
- 15 meter horizontal accuracy
- 70% accuracy w/ 0.89 acre minimum
- mapping unit

Imperviousness surface map

- Yes/no classification: pixel is impervious if 50% or more is impervious
- 5 meter pixel resolution
- 15 meter horizontal accuracy
- 90% accuracy w/ 0.89 acre minimum
- mapping unit

Work will be completed by July 2005



Data Services

The image displays three overlapping screenshots of web-based GIS services from the state of Maine.

- Maine GIS Data Catalog:** The top-left window shows the main catalog page with a search bar, navigation tabs (Town, County, 24k Tile, 100k Tile, Single), and a list of data layers. It includes a welcome message and instructions on how to use the catalog.
- Maine Aerial Photography:** The top-right window shows an aerial photograph of a rural area. A sidebar on the right lists layers such as Town Lines, US Foot Color Index, 1 Meter Grayscale Index, US Foot Color Photography, Town Names, County Names, and Road Names. A 'Zoom to a town' dropdown menu is visible at the bottom.
- MEGIS Basemap:** The bottom-right window shows a topographic basemap with contour lines and elevation. A sidebar on the right lists layers including USGS Quadrangles, 24k Index, Place Names, Roads 951, Roads 24k, Major Routes, Streams, Lakes and Ponds, Contours, and Towns. It also features a 'Zoom to a town' dropdown menu.

- 1 – Downloads from Data Catalog
- 2 – Internet Mapping Applications
- 3 – OGC compliant map services

GIS licenses

- **Central license pool**
- **Access through Citrix service – software on remote server**
- **Software installed locally - network used to connect to license pool**

GeoLibrary One-Stop Portal

- Geospatial data & service discovery
- Interactive Internet map to view data
- Clip, zip and ship data within limited extent from MeGIS database
- Print tools for basic maps
- Tools for organizations to register data
- Integrated with *GeoSpatial OneStop* and *The National Map*
- RFP issued May, 2005. Responses in this week.

Additional Information

- GIS Technical support
 - 287-6144
 - Feedback form
- GIS User list server
 - To subscribe, send email to
mgisuser-request@lists.state.me.us
subscribe mgisuser your name <your email address>
 - To post a message on the list server, send email to
mgisuser@lists.state.me.us
- NEARC - Portland, Maine, September 18 to 21